ſhould be of the diſtance given, having the *Focus* of the *Object-glaſs* given equal to B, and the diſtance given to B † D; the diſtance between the firſt and the ſecond Glaſs will be equal to $\frac{2B^2+2BD}{2B+D}$, whence ſubducting B (the *Focus* of the *Object-glaſs* given) there remains $\frac{BD}{2B+D}$; and if this ſum be ſuppoſed equal to C, we ſhall eaſily know, by the precedent Rule, the *Focus* of the *ſecond* Glaſs.

So far M. *Auzout*, who, I truſt, will receive due ſatisfaction to his deſire, as ſoon as the happy end of the preſent Contagion ſhall give a beginning and life again to the Studies and Actions of our retired *Philoſophers*.

I ſhall onely here adde, That the Secret he mentions [*of meaſuring the diſtance of Places by a Teleſcope (fitted for that purpoſe) and from one ſtation*] is a thing already known (if I am not miſ-informed) to ſome Members of our Society; who have been a good while ſince conſidering of it, and have contrived ways for the doing of it: Whether the ſame with thoſe of Mr. *Auzout*, I know not. Nor have I (at the diſtance that I am now from them) opportunity of particular Information.

An Experiment of a way of preparing a Liquor, that ſhall ſink into, and colour the whole Body of Marble, *cauſing a* Picture, *drawn on a ſurface, to appear alſo in the* inmoſt *parts of the Stone.*

This *Experiment*, having been hinted at in the next foregoing *Papers*, out of the *Mundus Subterraneus* of *Athanaſius Kircher*, and ſeveral Curious Perſons, who either have not the leiſure to read Voluminous Authors, or are not readily skilled in that Learned Tongue wherein the ſaid Book is written, being very deſirous to have it transferred hither, it was thought fit to comply with their deſire herein.

The Author therefore of the *Mundus*, &c, having ſeen ſome

ſome ſtones reputed to be *natural* that had moſt lively Pictures, not only upon them, but paſſing *thorow* their whole ſubſtance, and thereupon finding an *Artiſt*, ſkilful to perform ſuch rare workmanſhip, did not only pronounce ſuch ſtones to be *artificial*, but when that *Artiſt* was unwilling to communicate unto him his Secret, did joyn his ſtudy and endeavors with thoſe of one *Albertus Gunter* a *Saxon*, to find it out themſelves: wherein having ſucceeded, it ſeems, they made the Experiments which this Indultrious and communicative *Jeſuit* delivers in this manner:

The Colours, ſaith he, are thus prepared; I take of *Aqua fortis* and *Aqua Regis*, two ounces *ana*; of *Sal Armoniack* one ounce; of the beſt *Spirit of Wine*, two drachms; as much *Gold* as can be had for nine *Julio*'s (a *Julio* being about ſix pence Engliſh) of pure *Silver*, two drachmes. Theſe things being provided, let the Silver, when calcined, be put into a Vial; and having powred upon it the two drachmes of *Aqua fortis*, let it evaporate, and you ſhall have a Water yielding firſt a *blew* Colour, and afterwards a *black*. Likewiſe put the Gold, when calcin'd, into a Vial, and having powred the *Aqua Regis* upon it, ſet it by to evaporate: then put the *Spirit of Wine* upon the *Sal Armoniack*, leaving it alſo till it be evaporated; and you will have a Golden coloured Water, which will afford you divers Colours. And, after this manner, you may extract many *Tinctures* of Colours out of other Mettals. This done, you may, by the means of theſe two Waters, paint what Picture you pleaſe upon white Marble, of the *ſofter* kind, renewing the Figure every day for ſeveral days with ſome freſh ſuperadded Liquor, and you ſhall find in time, that the Picture hath penetrated the *whole* ſolidity of the Stone, ſo that cutting it into as many parts as you will, it will always repreſent unto you the ſame Figure on both ſides.

So far he, which how far it anſwers expectation, is referred to the Tryal of Ingenious Artiſts. In the mean time there are not wanting Experienced Men that ſcruple the Effect, but

yet

yet are far from pronouncing any thing poſitively againſt it, ſo that they doe not diſcourage any that have conveniencies, from trying.

But whether the way there mentioned will ſucceed, or not, according to expectation: Sure it is that a Stone-cutter in *Oxford*, Mr. *Bird*, hath many years ſince found out a way of doing the ſame thing, in effect, that is here mentioned; and hath practiſed it for many years. That is, he is able ſo to apply a colour to the outſide of poliſhed Marble, as that it ſhall ſink a conſiderable depth into the body of the ſtone; and there repreſent like figures or images as thoſe are on the out ſide; (deeper or ſhallower according as he continues the application, a longer, or leſſer while.) Of which kind there be divers pieces to be ſeen in *Oxford*, *London*, and elſewhere. And ſome of them being ſhewed to his Majeſty, ſoon after his happy reſtauration, they were broken in his preſence, and found to anſwer expectation. And others may be dayly ſeen, by any who is curious, or deſirous to ſee it.

An Intimation of a Way, found in Europe *to make* China-diſhes.

Notice was lately given by an inquiſitive *Pariſian* to a friend of his in *London*, that by an Acquaintance he had been informed, that Signor *Septalio*, a Canon in *Millan*, had the Secret of making as good *Porcelane* as is made in *China* it ſelf, and tranſparent; adding that he had ſeen him make ſome.

This as it deſerves, ſo it will be further inquired after, if God permit.

An Account of an odd Spring *in* Weſtphalia, *together with an Information touching* Salt-Springs *and the ſtraining of ſalt-water.*

An obſerving Gentleman did lately write out of *Germany*, that in *Weſtphalia* in the Dioceſs of *Paderborn*, is a Spring, which looſes it ſelf twice in 24 houres; coming always after 6 houres, back again with a great noiſe, and ſo forcibly, as